In Search of GLOBE Data – Student Worksheet

Project #1:
Part 3: Creating graphs using GLOBE data

The graph of Maximum Air Temperature for _Lycee Behanzin_ in Porto Novo, Benin, _Reynolds Jr. Sr. High School_, in Greenville, PA USA, and _Serpentine Primary School_, in Serpentine, Australia, should be on your screen. (Note: If you are beginning anew, and not continuing directly from Project #1, Part 2, follow steps 1 through 6 of Project #1, Part 1, and steps 1 through 9 of Project #1, Part 2, before proceeding.)

Step 1:   Scroll down below the graph. You will see a box entitled: _Graph Data and Display Selection_. Under the _Datasets (Choose a dataset)_ option, click on _Maximum Temperature_ (the current displayed dataset); this action will open the scroll menu of datasets. Click on _Mean Temperature_.
Step 2:   Under the _Plot Type_ option, click on _Combined Graph_ (the current graph display). Click on _Stacked Graph_.
Step 3:   Scroll down below the graph to the _Graph Data and Display Selection_. Below the "Dates" selections you will see _**Or** Select a pre-defined time period:_ Click on _SELECT DATES_ (the current display) and click on _2001_. Click on _Redraw_.

What is Mean Temperature? How is this temperature determined?_____

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What do you notice about the three graphs? Why are these three graphs of Mean Temperature different? (Note: Latitudes and Longitudes of the schools can be found below the graph in the list of Selected Schools under the _Other Options_ box.) _____

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Do the data in the three graphs seem reasonable? Why or why not?_____

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Step 4:   Scroll down below the graphs until you see _Graph Data and Display Selection_. Change the _Dates_ to _Month:_ 03; _Day:_ 01 through _Month:_ 03; _Day:_ 31. Click on _Redraw_. (_Year:_ 2001 should remain the same.)
Step 5:   Scroll down below _Graph Data and Display Selection_ and below the _Redraw_ button. You will see a box entitled _Other Options_. Click on _Select Option_, click on _Show Table_ and then click on _Go_.

The table of data is located below the graph and graphing tools. Scroll through the data. You'll notice that _Serpentine Primary School_ reported 0° C on March 17 and 18. Does that seem reasonable? If not, what might have happened? _____

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You are now ready to proceed to Project #2.